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5 amended claims 1, 2, 3, 11 and 12; claim 4 deleted;
 claims 5-14 as originally filed, renumbered 4-13]

1. The use of essentially insoluble micronized plant
 fibers in the form of microparticles, at least 90%
10 by weight of which are less than 700 μm in size,
 as an ingredient in the preparation of a
 nutritional composition for reducing mycotoxin
 bioavailability in humans or animals when a food
 liable to be contaminated with said mycotoxins is
15 ingested.
2. The use as claimed in claim 1, characterized in
 that the micronized plant fibers are in the form
 of microparticles, at least 90% by weight of which
20 are less than or equal to 400 μm in size.
3. The use as claimed in claim 2, characterized in
 that the micronized plant fibers are in the form
 of microparticles, at least 90% by weight of which
25 are between 2 μm and 200 μm , inclusive, in size.
4. The use as claimed in any one of the preceding
 claims, characterized in that said nutritional
 composition is for reducing the bioavailability of
30 hydrophobic mycotoxins.
5. The use as claimed in any one of the preceding
 claims, characterized in that the plant fibers are
 chosen from fibers derived:
35 - from nutritional plants chosen from cereals,
 leguminous plants, edible plants and fruits,

- from plants used by the paper industry, chosen from trees, sugar cane, bamboo and cereal straw.

5 6. The use as claimed in claim 5, characterized in that the plant fibers derived from cereals are chosen from wheat, barley, oat, maize, millet, rice, rye and sorghum fibers, and malted equivalents thereof.

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7. The use as claimed in claim 5, characterized in that the fibers derived from nutritional plants, other than cereals, are chosen from fibers derived from apples, pears, grapeseeds, lupin and soya seeds, tomatoes, peas and coffee.

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8. The use as claimed in any one of claims 1 to 6, characterized in that the nutritional composition is for reducing the bioavailability of ochratoxin A, aflatoxins, fumonisin and/or deoxynivalenol, and that the micronized plant fibers are chosen from wheat fibers and oat fibers, and mixtures thereof.

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25 9. The use as claimed in claim 8, characterized in that the nutritional composition is for reducing ochratoxin A bioavailability, and that the plant fibers are micronized wheat fibers in the form of microparticles, 90% by weight of which are less than or equal to 100 μ m in size.

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10. The use as claimed in any one of the preceding claims, characterized in that the nutritional composition is in the form of a food supplement, and that the amount of micronized plant fibers in said supplement represents up to 100% by weight of the total weight of said supplement.

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11. The use as claimed in claim 10, characterized in that the amount of micronized plant fibers in said supplement is between 80% and 100% by weight of the total weight of said supplement.
12. The use as claimed in any one of claims 1 to 8, characterized in that the nutritional composition is intended for human nutrition, and that it is in the form of a nutritional ingredient to be added during the manufacture of a food product at a rate of from 0.05% to 20% by weight relative to the total weight of said food product.
13. The use as claimed in any one of claims 1 to 8, characterized in that the nutritional composition is intended for animal nutrition, and that it is in the form of a starting material to be added to the daily food intake which is given to domestic or breeding animals, or to be incorporated, as an ingredient, during the manufacture of a complete food for domestic or breeding animals at a rate of from 0.05% to 10% by weight relative to the total weight of the food intake or of the complete food.